IT Unit 3

Topic 2

# Ch. 3, Data Analytics: Drawing Conclusions, Part 2

**Data security**, 170-175

1. Why is data security important to an organisation?

* Clearly, it is important that business protect personal and corporate data from accidental or deliberate loss, damage or theft.

1. Distinguish between deliberate and accidental threats to data.

* Deliberate is when someone is on purposely trying to damage data whereas accidental is usually an accident.

**Physical security**

1. List ways of physically security data.

* Keep devices in a secure location
* If a family member needs to use a device with important information, do not a loud them to access the business data.

**Software security**

1. Elaborate under each of the following software security strategies:
   1. Use strong passwords

* A strong password should consist of at least 8 characters with a combination of lower and upper case letters with numbers
  1. Use login passwords
* Use a login in password to protect devices so people cannot access sensitive data.
  1. Use biometric identification
* Are devices use to scan a particular part of some body to use that as an identification, this makes each person unique because no two people have the same finger print for example.
  1. Always log out
* When you’re not using a device logout so data can’t be access
  1. Encryption
     1. What is public key encryption
* Modern encryption uses **Public Key Encryption,** which does not need a key to be sent to unlock it.
  + 1. What is PGP?
* Pretty good privacy
  1. Firewall
* A firewall prevents unauthorised access to your data and information, and deny networks access to outsiders.
  1. Antivirus software
     1. What is malware?
* Software, that is specifically designed to disrupt, damage, or gain authorized access to a computer system.
  + 1. What is payload?
* Is triggered by human actions, such as running programs.
  1. Backup your files
* back up files so there is a backup in case of any accidental or deliberate attacks you are prepare with a original source.